

[User manual](#)

[Toolbox 4.3 Release Notes](#)

Document history

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If you have questions or comments that relate to this document, please send them to ehscont@oecd.org or visit the QSAR Toolbox discussion forum at https://community.oecd.org/community/toolbox_forum

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1 Overview

The Toolbox 4.3 installation is a major update of Toolbox 4.2. It can be installed as a separate product alongside previous major releases of Toolbox (4.2, 4.1, 4.0, 3.4, 3.3, etc.)

2 System Requirements

Minimum system requirements

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OS: 64 bit, Windows 7 or newer

CPU: Core 2 duo at 2 GHz or equivalent AMD CPU

RAM: At least 4GB of RAM

HDD: 14 GB free hard drive space

File system: NTFS

Microsoft .NET Framework 4.5.1

Recommended system requirements

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OS: 64 bit, Windows 7 or newer

CPU: I5 at 2.4GHz or faster processor or equivalent AMD CPU

RAM: 6 GB of RAM

HDD: 20 GB free hard drive space

File system: NTFS

Microsoft .NET Framework 4.5.1

3 Change log

I. New additions

- 1. Databases: 2 new databases** (*pKa OASIS, ADME database*)
- 2. Profilers: 5 new profilers** (*Acute Oral Toxicity, Blood brain barrier (beta), Oral absorption (beta), Skin permeability (beta), Uncouplers (MITOTOX)*)
- 3. 2D parameters: 5 new methods for assessing pKa**
- 4. (Q)SAR models: 159 new (Q)SAR models** – including pre-calculated online Danish QSAR DB models and new pKa models
- 5. New functionalities:**
 - **(Q)SAR editor** – possibility to create custom (Q)SAR model by dynamic link to external online QSAR computational platform or by equation; possibility to edit, import and export the custom profilers
 - **Effectopedia Wizard** – connection between Toolbox and Effectopedia is possible now
 - **Stereo information** - New buttons for drawing stereo bonds in the 2D editor and visualization of the stereo information on the data matrix
 - **ChemID** – possibility to search by additional chemical identifier (EC number); possibility to include additional ID information in the custom inventories during the import
 - **Public API** - Toolbox application program interface is now publicly available. This allows software developers to enrich Toolbox tools library with additional parameter calculators, profilers, (Q)SAR models and metabolism simulators.

II. Improvements

1. Updated databases: 5 updated databases

- **ECHA CHEM** (*dissemination November 2018*) - 11 735 chemicals with 668 041 data are available now
 - corresponding to IUCLID 6.2

- Endpoints with the most new experimental data: *aquatic toxicity* (3 205 chemicals and 46 347 data points), *irritation/corrosion* (3 549 chemicals and 120 121 data points), *sensitization* (2 101 chemicals and 6 614 data points)
- **ECOTOX** (September 2018)- 11 655 chemicals with 917 046 data are available now
 - 335 chemicals and 29 931 data points are new
- **Genotoxicity OASIS** – 7985 chemicals with 30 447 data are available now
 - 55 chemicals and 507 data points are new
- **Hydrolysis rate constant OASIS** – 349 chemicals with 349 data are available now
 - 8 chemicals and 8 data points are new
- **Repeated Dose Toxicity HESS** – new metadata are included

2. Updated profilers and simulators

- 16 updated profilers
- 7 updated metabolism simulators

3. Improved functionalities

- Showing the database affiliation of the results when search for a chemical by CAS/Name/SMILES
- Removing of the duplicated SMILES when load a list with SMILES
- “Alert performance” (AP) functionality – selection of an alert for primary grouping directly from the *Alert performance results* window is possible now
- Reorganization of the report wizard pages in order to improve the user-friendliness of the reports
- Possibility to manage the report basket items (to rearrange (move up/down), to rename or to delete)

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